AMENDMENT TO THE CLAIMS

Please amend the presently pending claims as follows:

1. (Currently Amended) Method for management of communication in a communication network comprising at least one transmission device and at least one terminal adapted to receiving data from the said at least one transmission device wherein the method comprises:

- setting up a communication between one of the said transmission devices called the transmission device, and one of the said terminals called the receiving terminal, using a first communication mode based on a single carrier modulation; and
- changeover to a second communication mode using a multiple carrier modulation, a communication channel using the said multiple carrier modulation being solely assigned to a downlink for the communication between the said transmission device and the said receiving terminal;

the first and second communication modes being implemented successively and alternately,

and wherein the changeover to the second communication mode is implemented according to at least one signaling information transmitted by the transmission device to the receiving terminal through the first communication mode.

2. (Previously Presented) Method according to claim 1, wherein the said multiple carrier modulation is an OFDM type modulation with a guard interval.

3. (Previously Presented) Method according to claim 1, wherein the said multiple carrier modulation is an IOTA type modulation.

4. (Previously Presented) Method according to claim 1, wherein the said first communication mode is adapted to carrying out operations for management of setting up, maintaining, and

closing of a communication between the transmission device and the receiving terminal.

5. (Previously Presented) Method according to claim 1, wherein the said communication network is a mobile communication network (UMTS).

6. (Previously Presented) Method according to claim 5, wherein the said first communication mode uses at least one common channel (FACH) that is intended to all the terminals managed by the said transmission device.

7. (Previously Presented) Method according to claim 6, wherein the said first communication mode uses at least one access channel type (FACH) downlink common channel, enabling the said changeover to the said second communication mode.

8. (Previously Presented) Method according to claim 1, wherein the said first communication mode uses at least one uplink common channel (RACH) to acknowledge data transmitted correctly to the said receiving terminal when the second communication mode is being used.

9. (Currently Amended) Method according to claim 1, wherein the said second communication mode is adapted to transmitting data at high speed between the said transmission device and the said receiving terminal.

10. (Currently Amended) Method according to claim 9, wherein the said second communication mode is adapted to transmitting Internet type data to the said receiving terminal.

11. (Previously Presented) Method according to claim 1, wherein the said transmission device is a base station in a cellular communication network.

12. (Currently Amended) Communication network signal comprising at least one transmission device and at least one terminal adapted to receiving data from the said at least transmission device, wherein the communication network further comprises first and second communication modes:

- the first communication mode based on a single carrier modulation, being used when setting up a communication between at least one of the said transmission devices, called the transmission device, and one of the said terminals called the receiving terminal; and
- the second communication mode using a multiple carrier modulation being used on a communication channel using the said multiple carrier modulation, solely assigned to a downlink for the communication between the said transmission device and the said receiving terminal,

the first and second communication modes being used successively and alternately, and

a changeover from the first to the second communication mode being implemented according to at least one signaling information transmitted by the transmission device to the receiving terminal through the first communication mode.

13. (Currently Amended) Transmission device designed to be implemented in a communication network comprising at least one terminal adapted to receiving data from the said transmission device, wherein the transmission device comprises:

- means of setting up a communication between the said transmission device and a first of the said terminals, called the receiving terminal, using a first communication mode based on a single carrier modulation; and
- means of changing over to a second communication mode using a multiple carrier modulation, a communication channel using the said multiple carrier modulation being solely assigned to a downlink for the communication between the said transmission device and the said receiving terminal;

the said first and second communication modes being used successively and alternately,

the means of changing over from the first communication mode to the second communication mode being implemented according to at least one signaling information transmitted by the transmission device to the receiving terminal through the first communication mode.

14. (Currently Amended) Receiving terminal that designed to be implemented in a communication network comprising at least one transmission device, the said terminal being adapted to receiving data from the said at least one transmission device, wherein the terminal comprises:

- means of setting up a communication between a first of the said transmission devices, called the transmission device, and the said terminal using a first communication mode based on a single carrier modulation; and
- means of changing to a second communication mode using a multiple carrier modulation, a communication channel using the said multiple carrier modulation being solely assigned to a downlink for the communication between the said transmission device and the said receiving terminal;

the said first and second communication modes being used successively and alternately,

the means of changing over from the first to the second communication mode being activated according to at least one signaling information transmitted by the transmission device to the receiving terminal through the first communication mode.